

FIG. 1

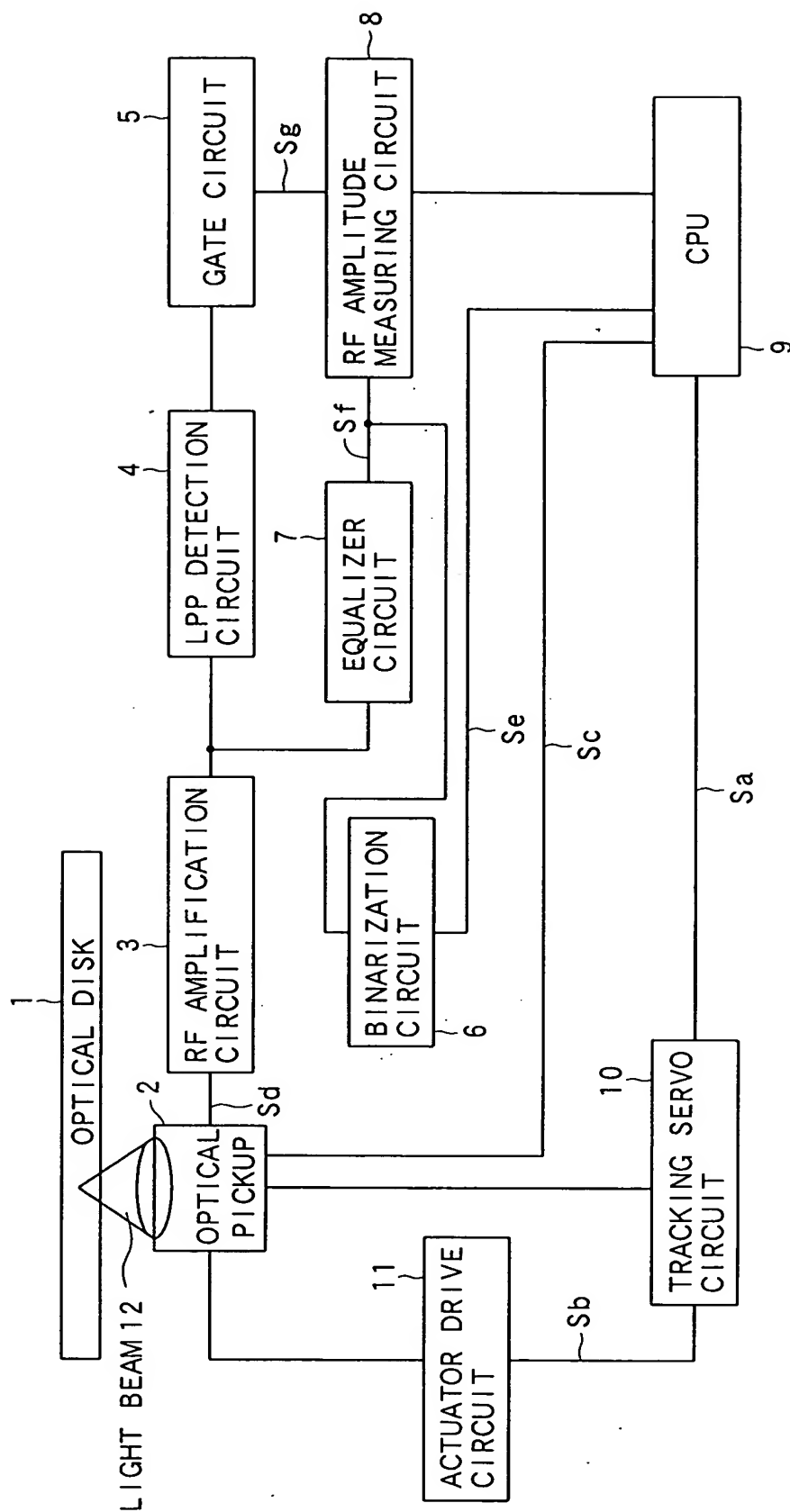


FIG. 2A

RF SIGNAL WAVEFORM NEAR LPP

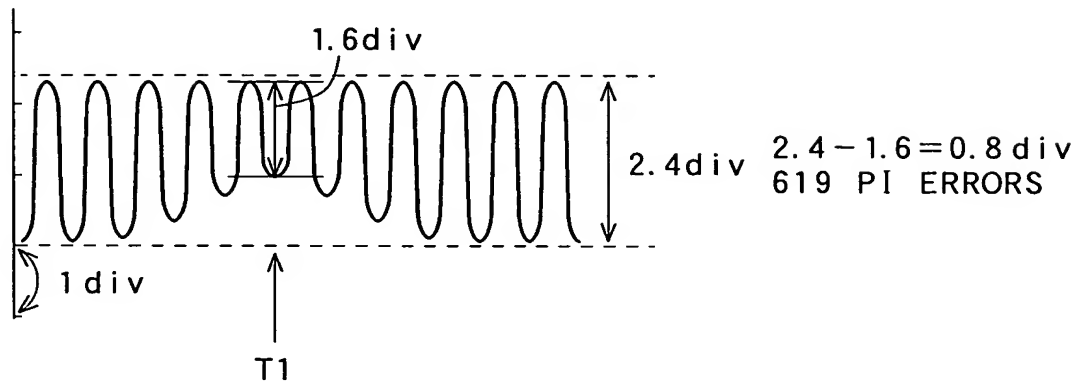


FIG. 2B

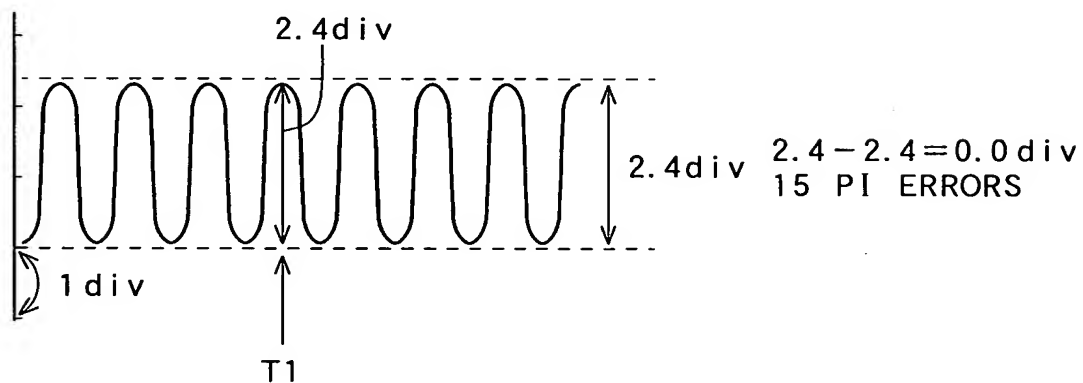


FIG. 2C

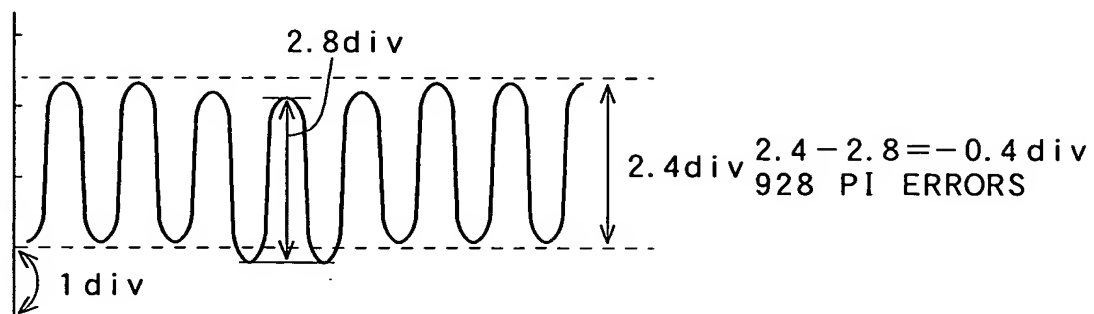


FIG. 3A

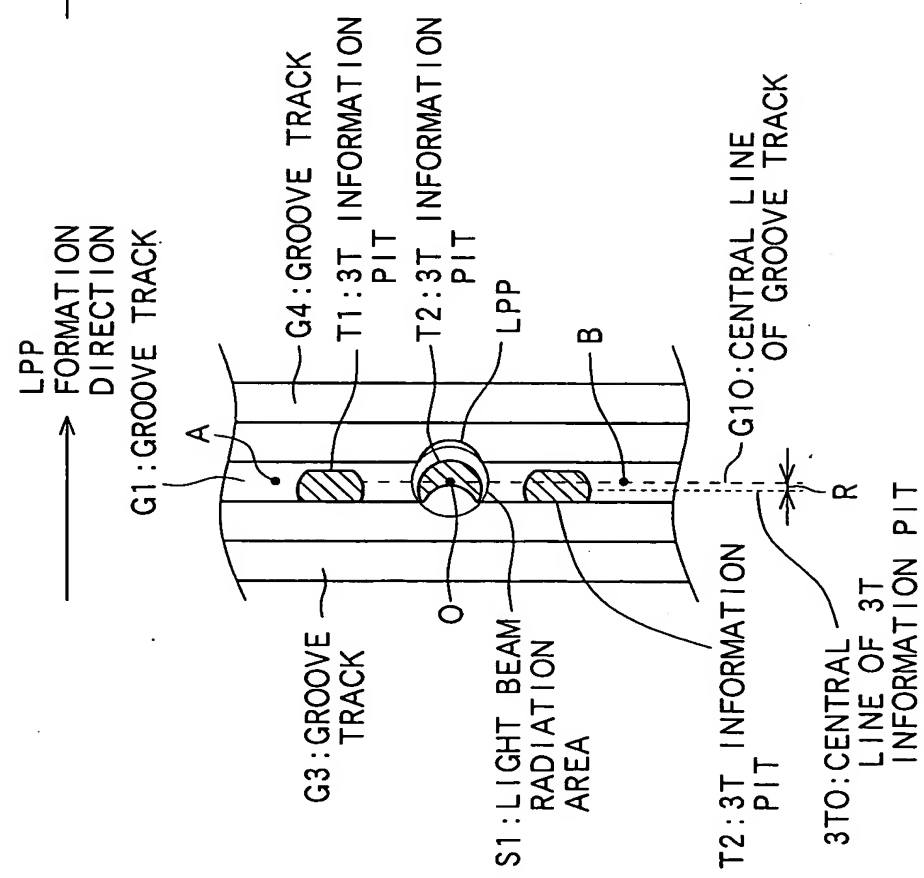


FIG. 3B

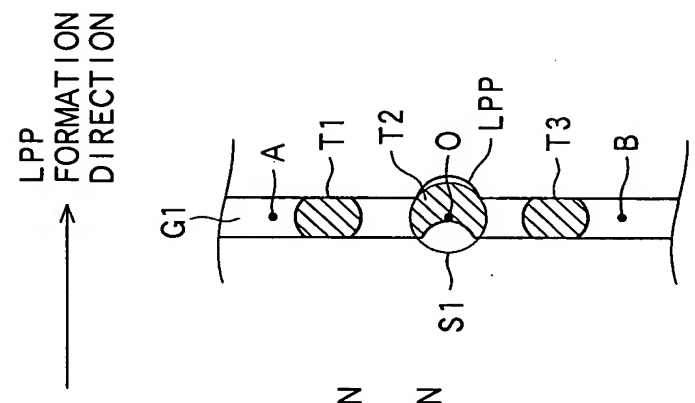


FIG. 3C

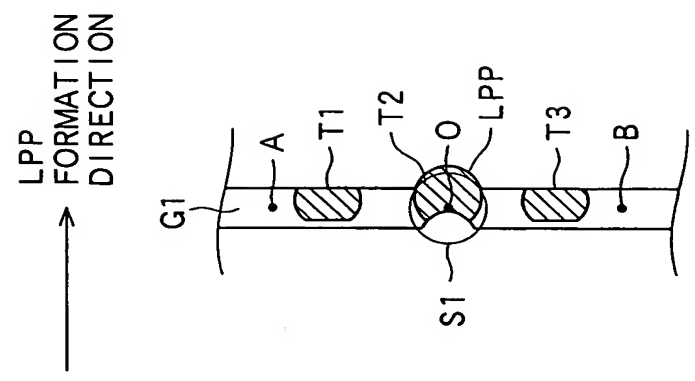


FIG. 4

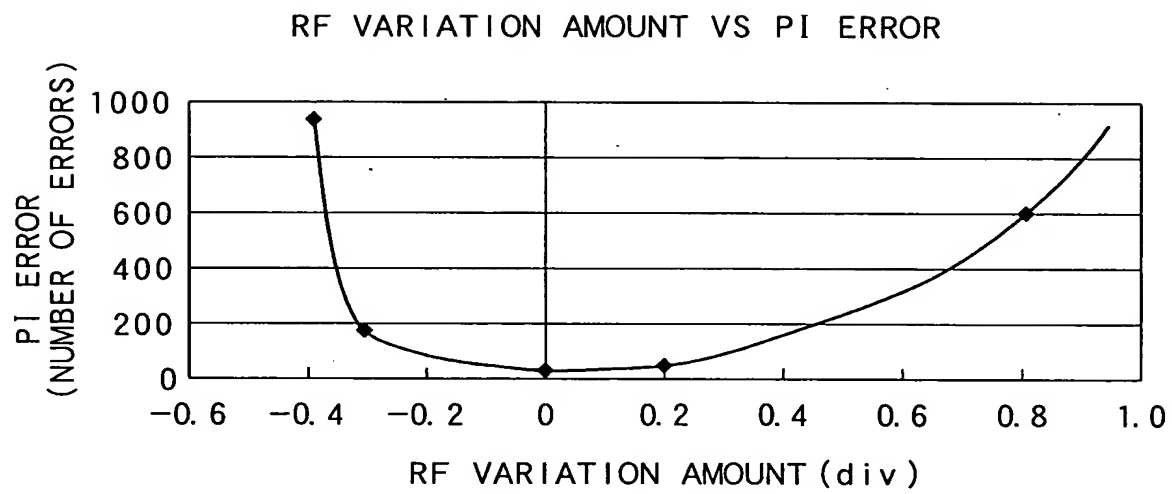


FIG. 5

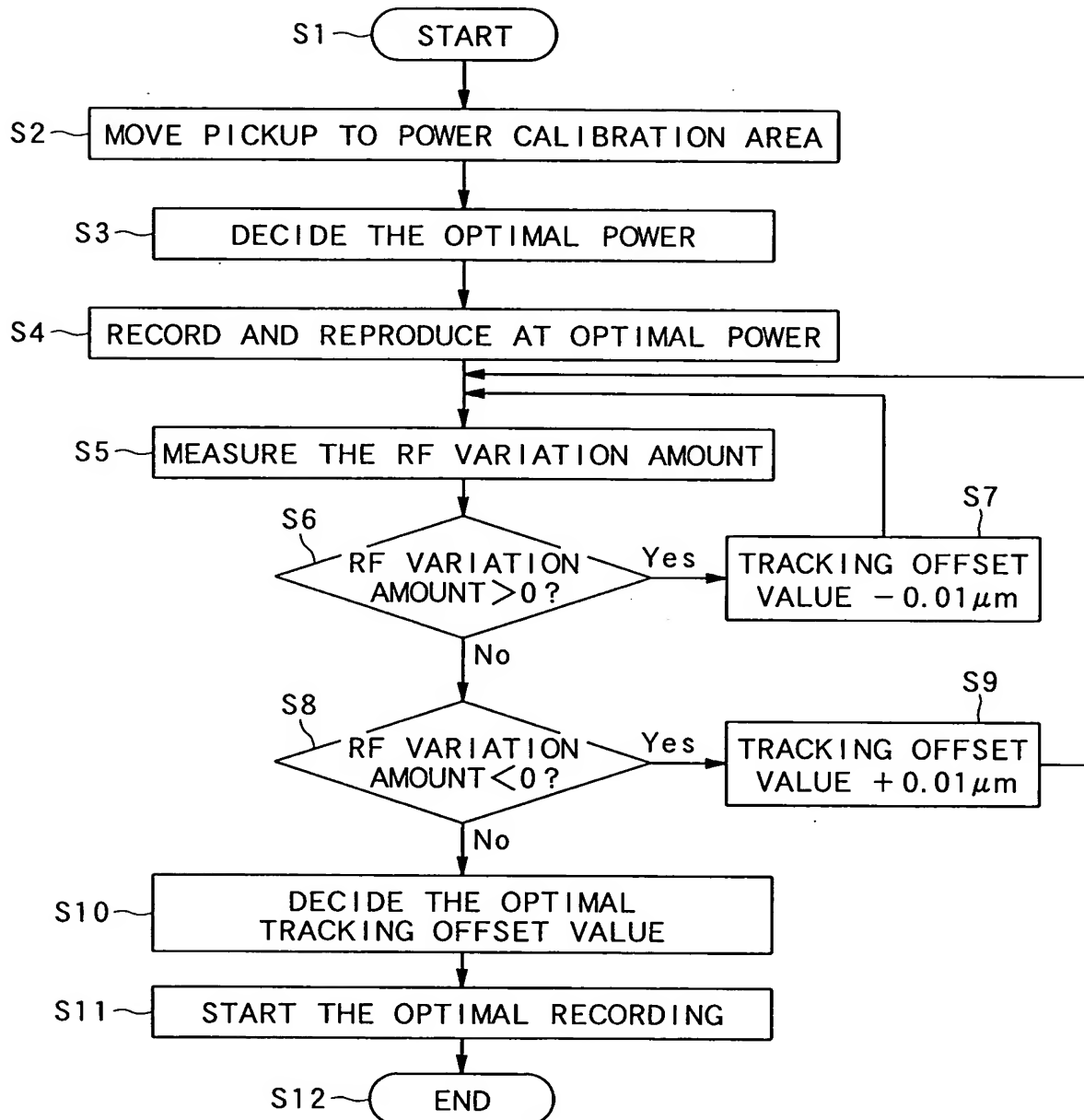


FIG. 6

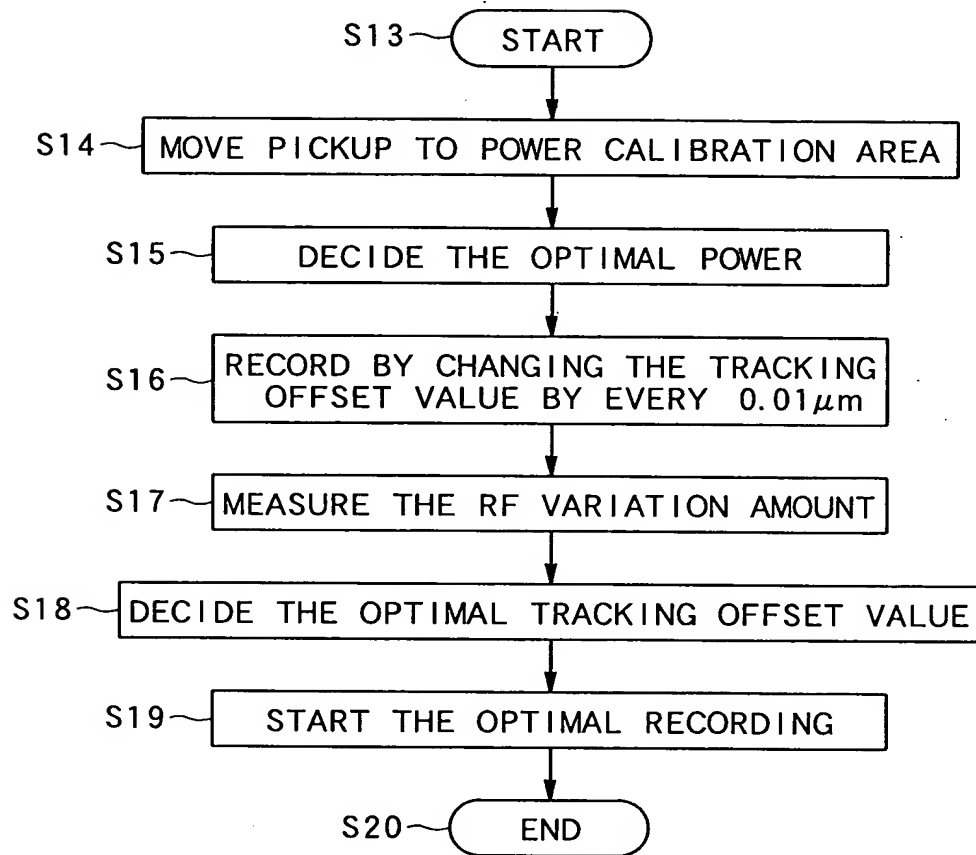


FIG. 7

POSITIONAL RELATIONSHIP BETWEEN LIGHT BEAM
RADIATION AREA AND OUTSIDE LPP

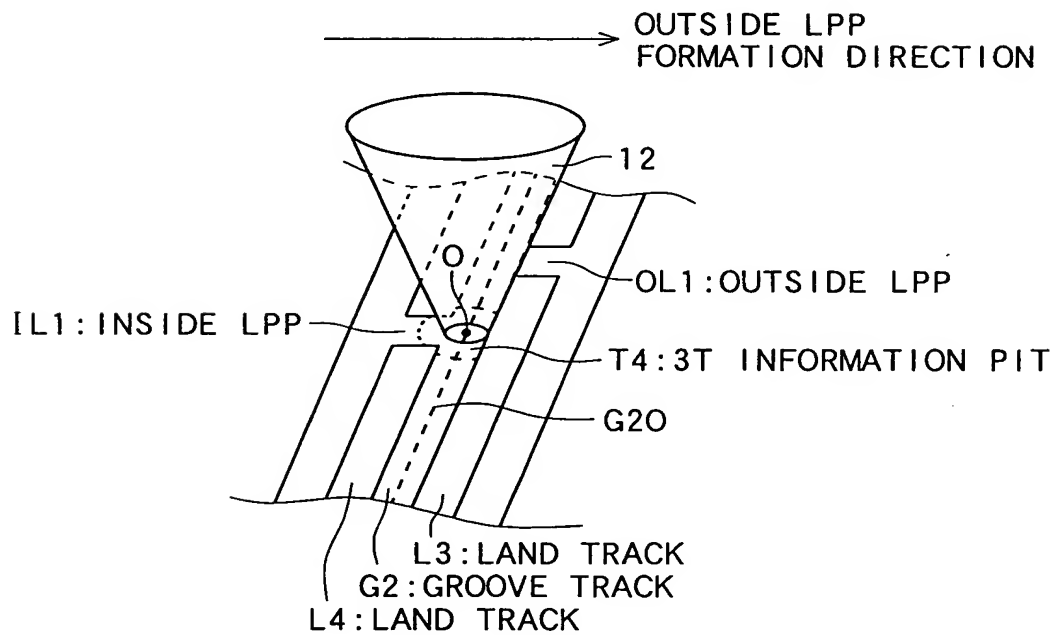
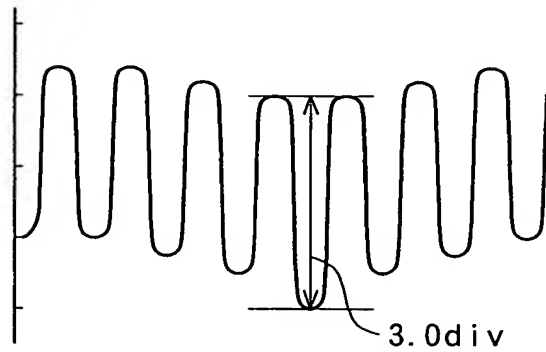
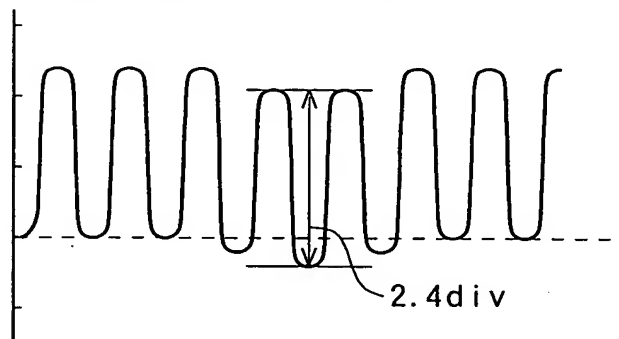


FIG. 8A

TRACKING OFFSET VALUE ($-0.086\mu\text{m}$)

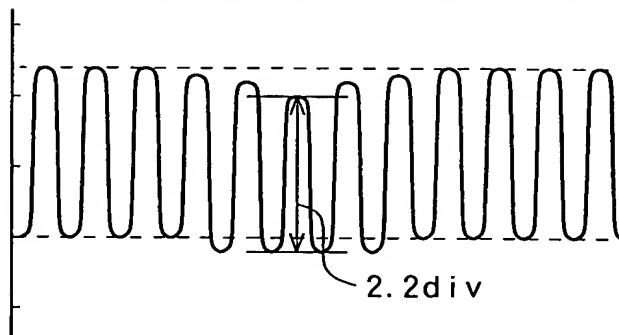
490 PI ERRORS

FIG. 8B

TRACKING OFFSET VALUE ($0\mu\text{m}$)

122 PI ERRORS

FIG. 8C

TRACKING OFFSET VALUE ($+0.086\mu\text{m}$)

639 PI ERRORS

FIG. 9

POSITIONAL RELATIONSHIP BETWEEN LIGHT BEAM
RADIATION AREA AND OUTSIDE LPP

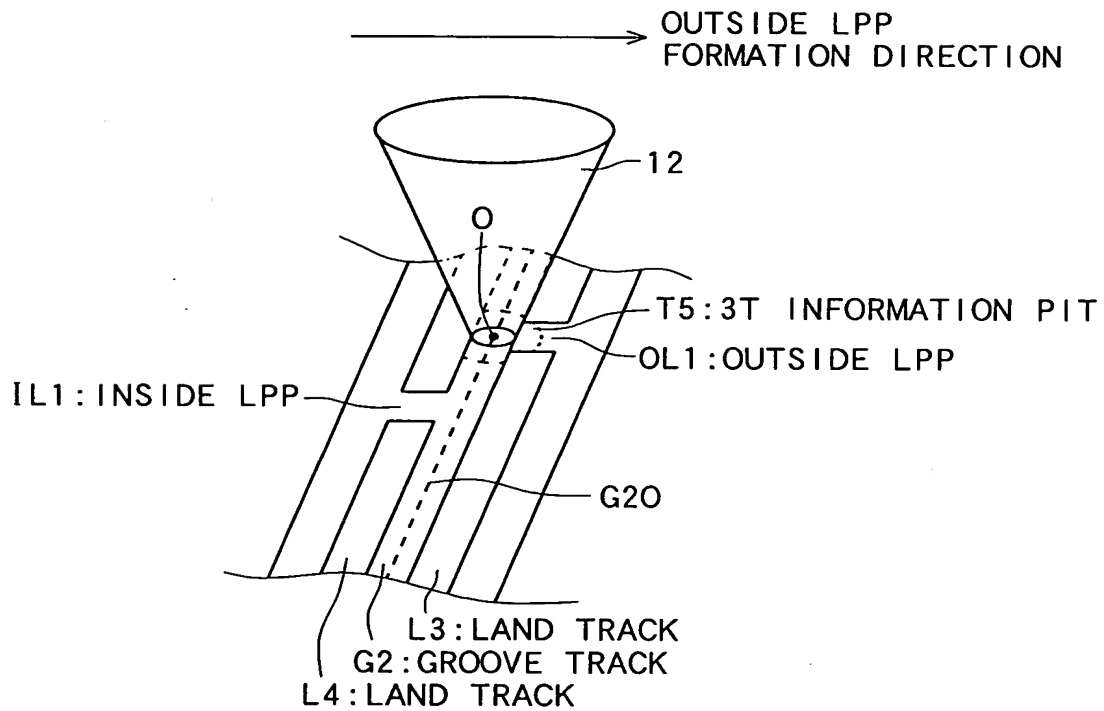


FIG.10 A

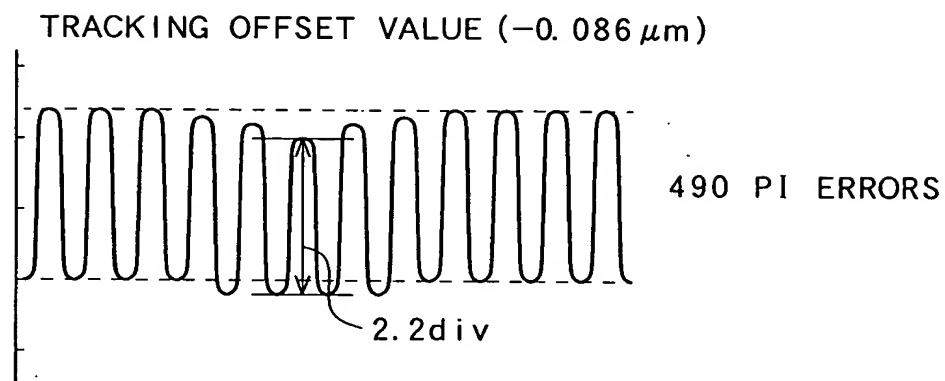


FIG.10 B

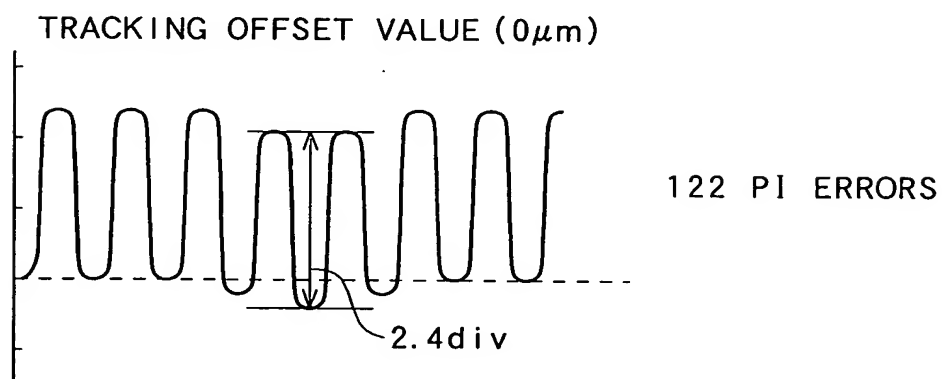


FIG.10 C

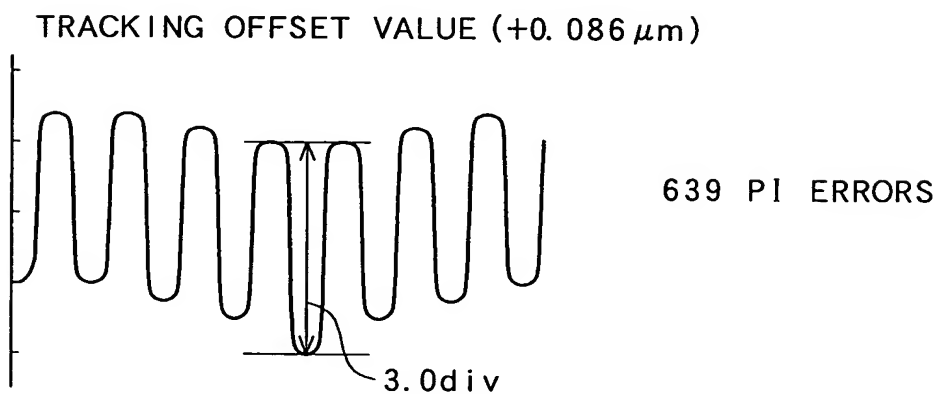


FIG. 11

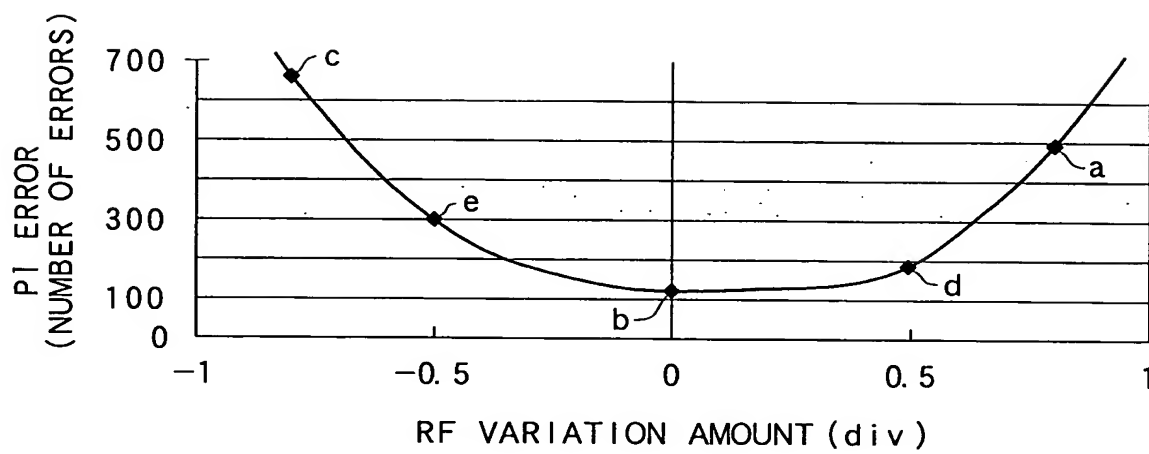


FIG.12

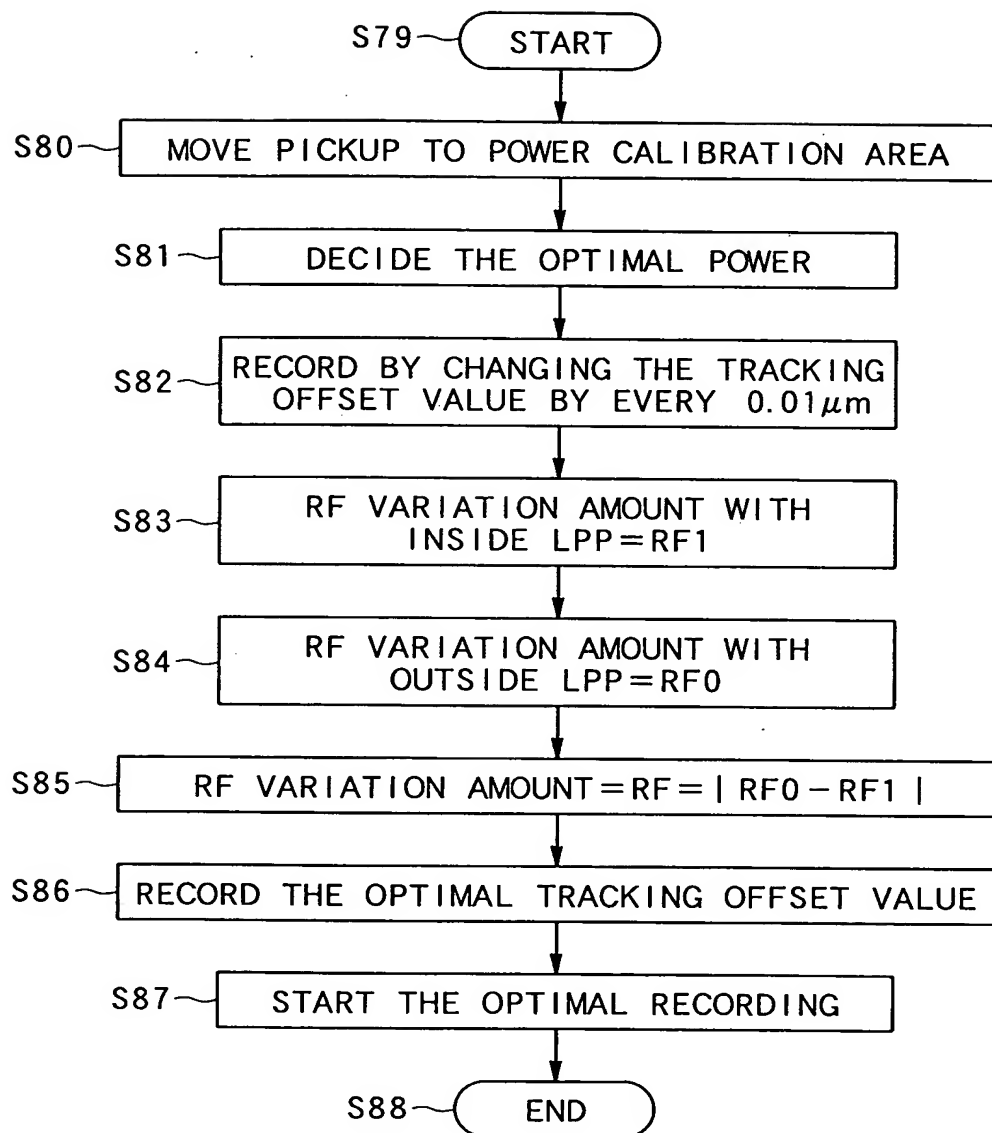


FIG. 13

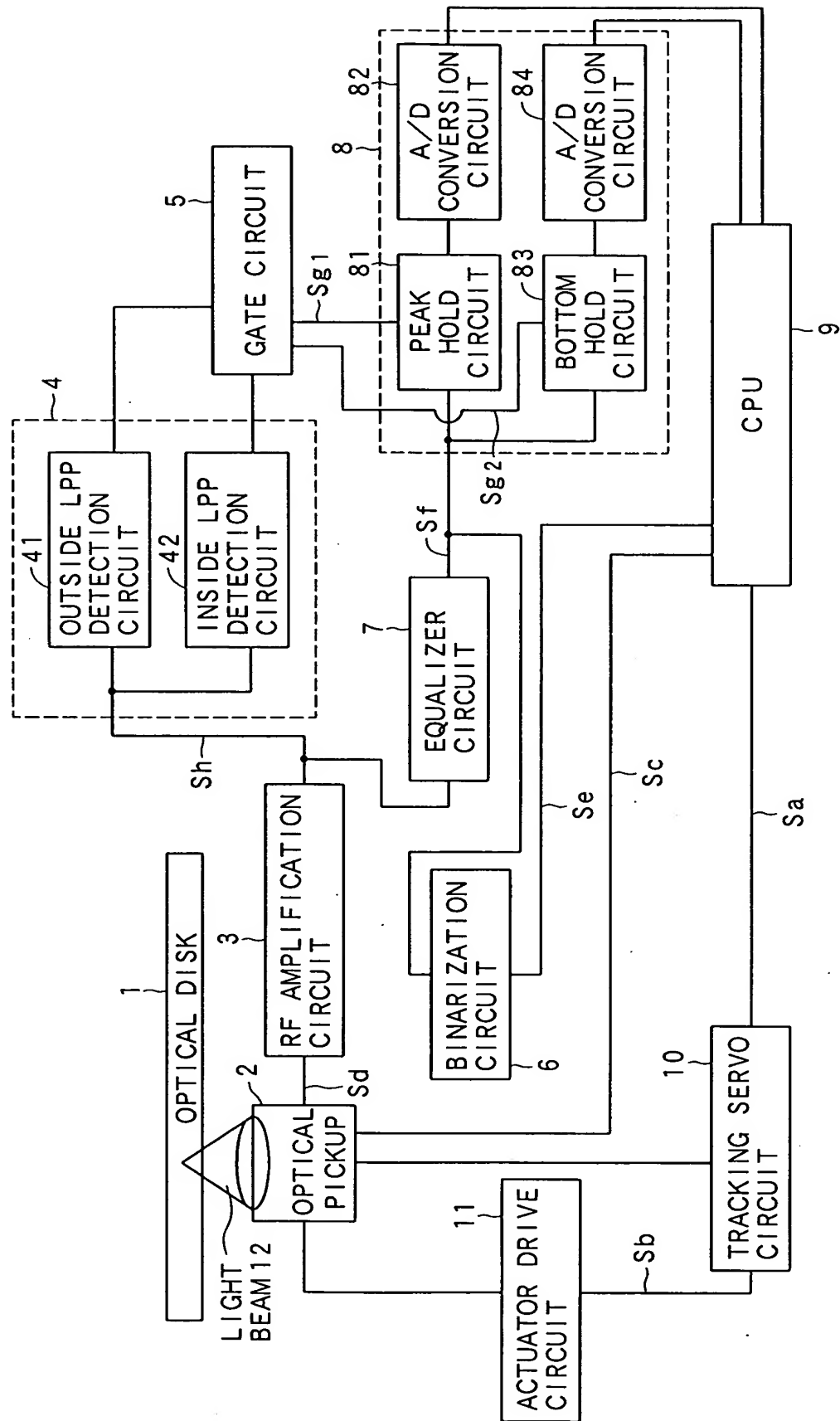


FIG.14

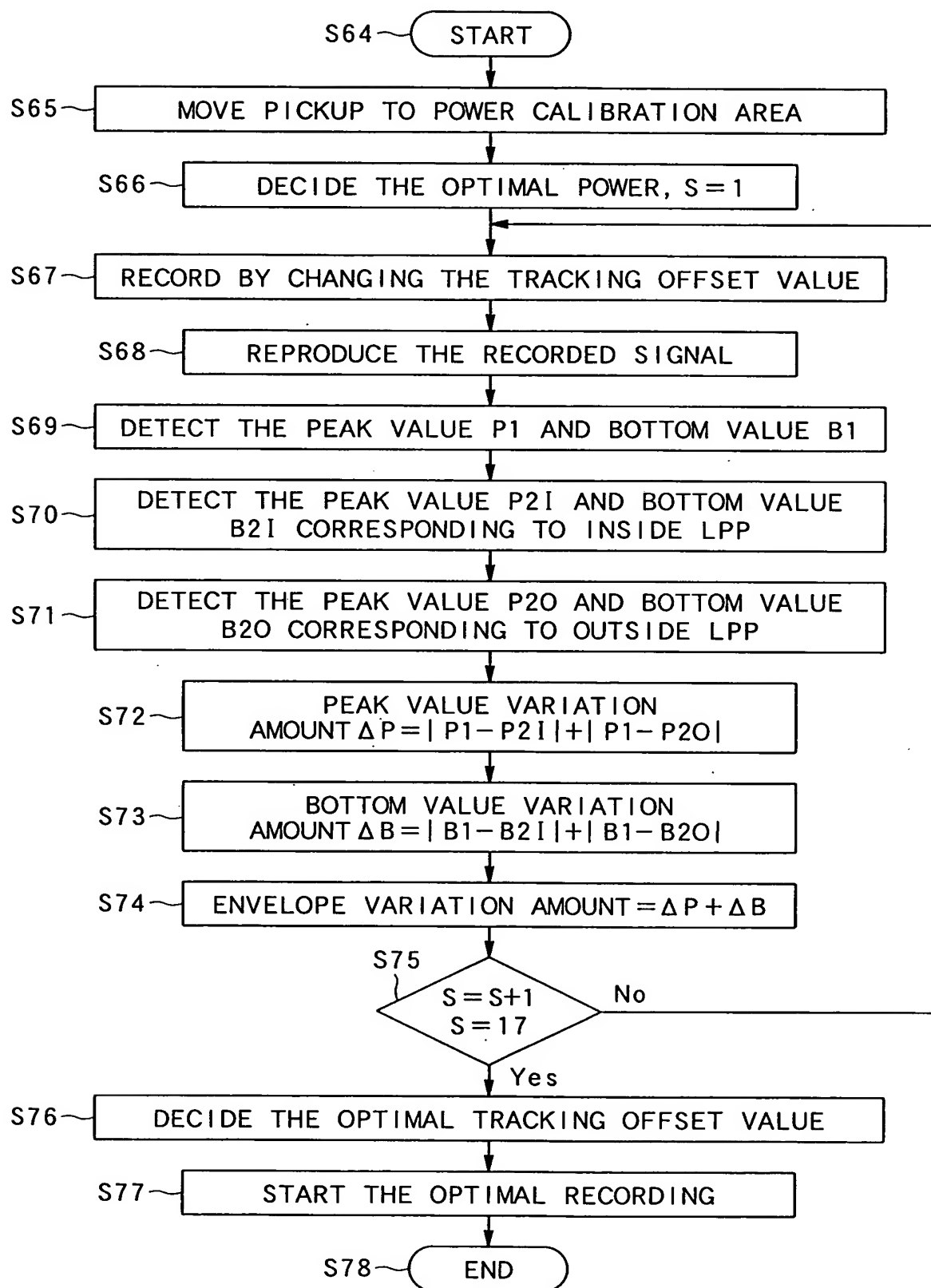


FIG.15

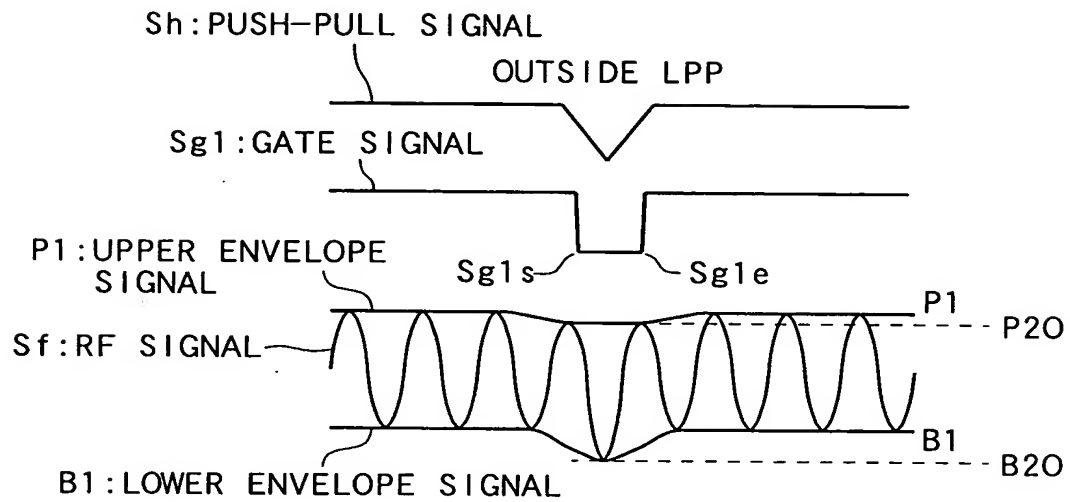


FIG.16

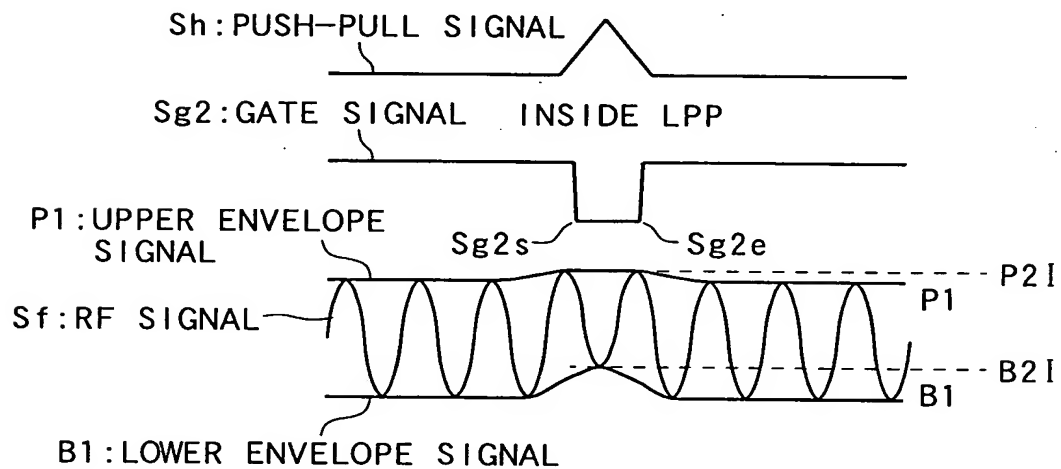


FIG.18

TRACKING OFFSET VALUE (μm)	DATA ERROR NUMBER (NUMBER OF ERRORS)		
	OUTSIDE LPP	INSIDE LPP	TOTAL
-0.08	0	47	47
-0.07	0	38	38
-0.06	0	30	30
-0.05	0	23	23
-0.04	0	17	17
-0.03	0	12	12
-0.02	0	8	8
-0.01	0	5	5
0.00	0	3	3
0.01	0	2	2
0.02	1	1	2
0.03	2	0	2
0.04	3	0	3
0.05	5	0	5
0.06	8	0	8
0.07	12	0	12

FIG.19A

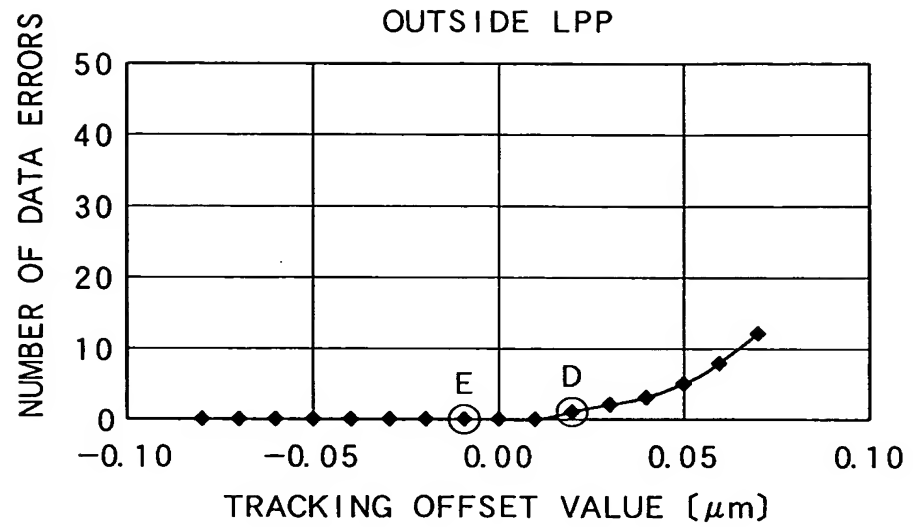


FIG.19B

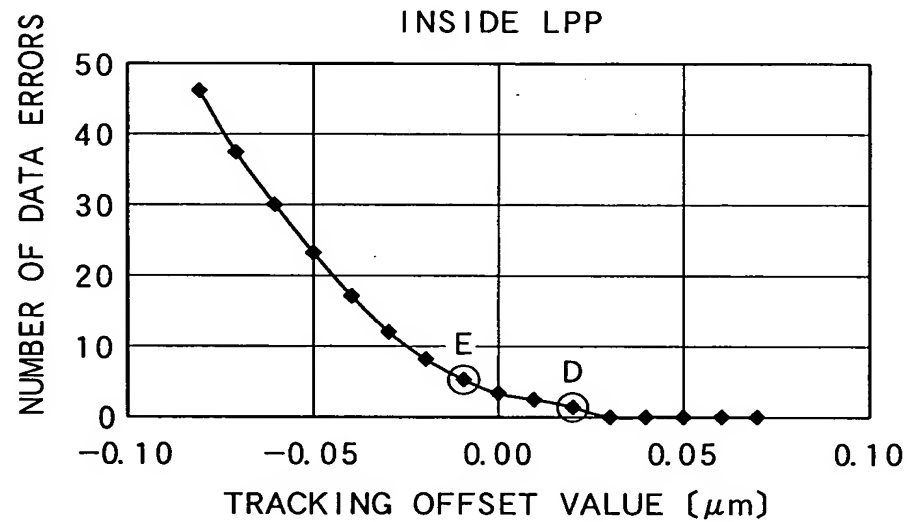


FIG.19C

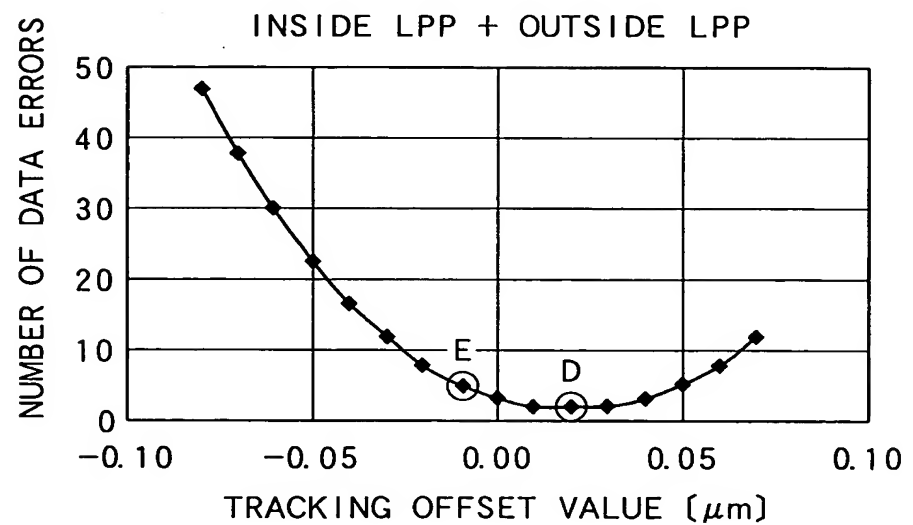


FIG. 20

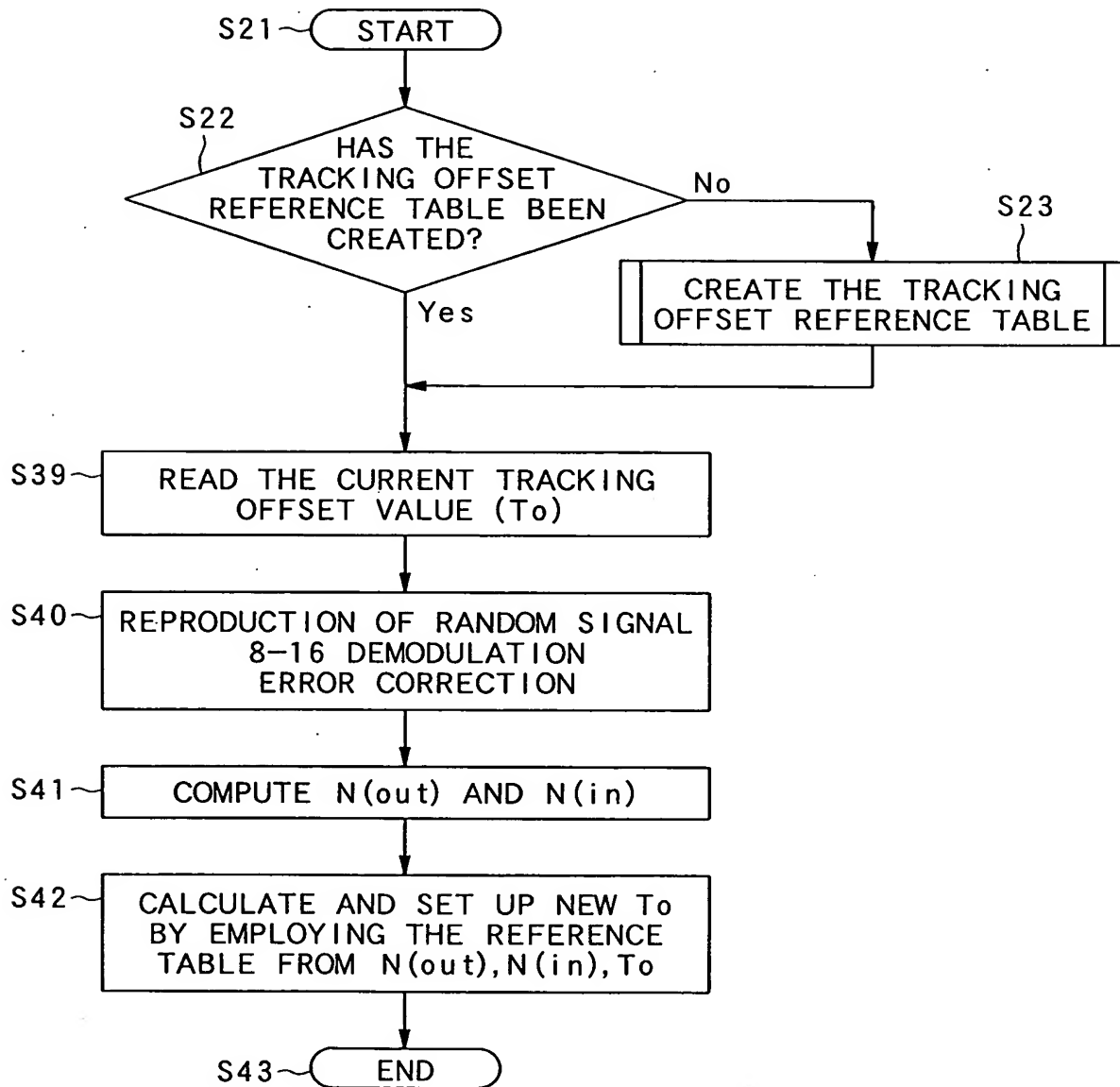


FIG. 21

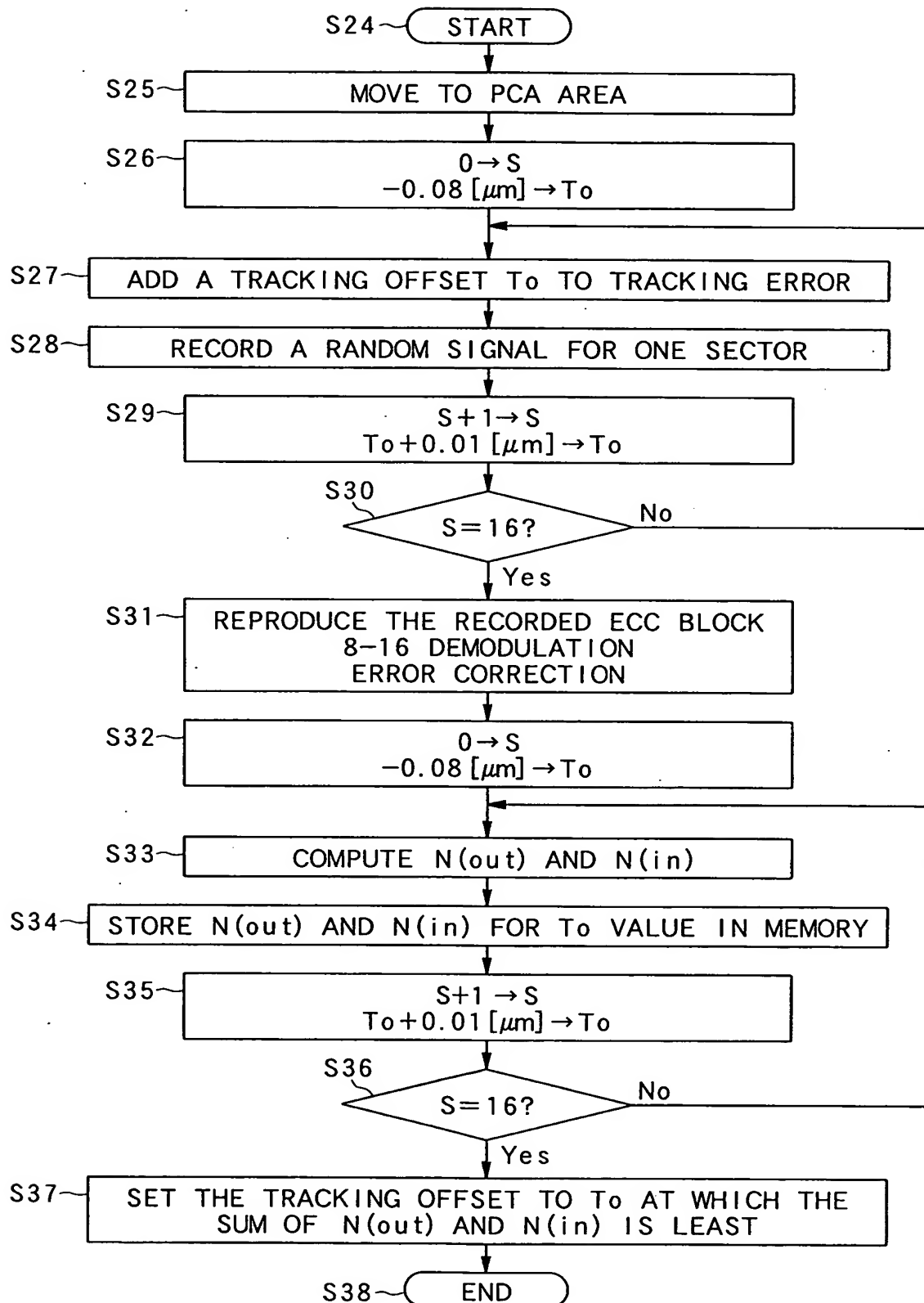


FIG. 22

TRACKING OFFSET VALUE (μm)	DATA ERROR NUMBER (NUMBER OF ERRORS)		
	OUTSIDE LPP	INSIDE LPP	TOTAL
-0.08	45	15	60
-0.07	36	10	46
-0.06	28	6	34
-0.05	21	3	24
-0.04	15	1	16
-0.03	10	0	10
-0.02	6	0	6
-0.01	3	0	3
0.00	1	0	1
0.01	0	0	0
0.02	0	0	0
0.03	0	0	0
0.04	1	0	1
0.05	3	0	3
0.06	6	0	6
0.07	10	0	10

FIG. 23A

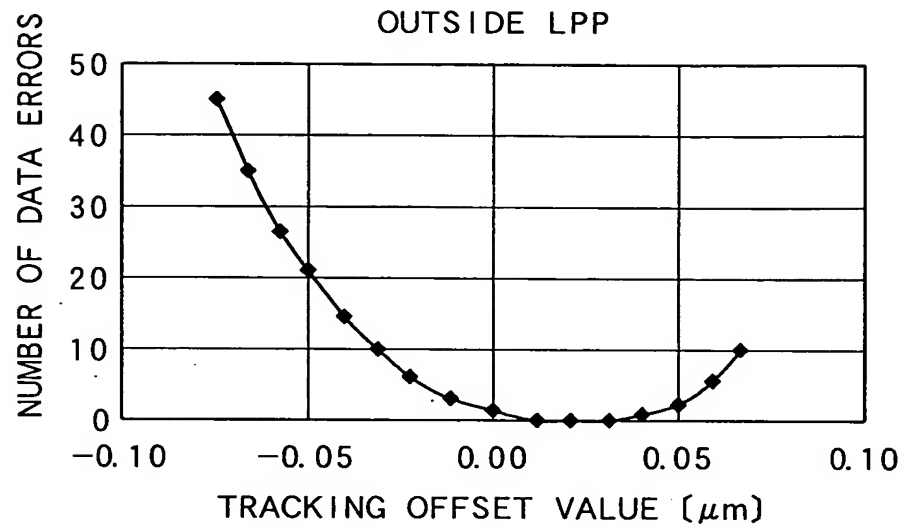


FIG. 23B

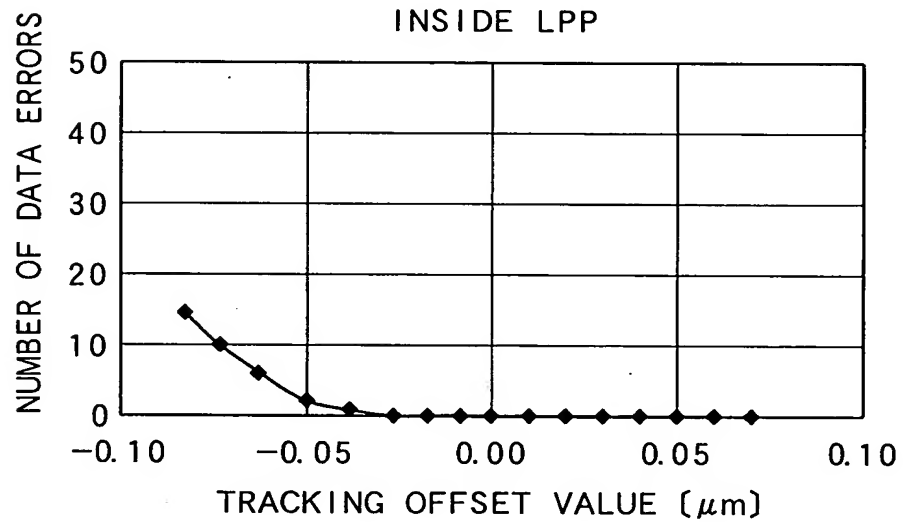


FIG. 23C

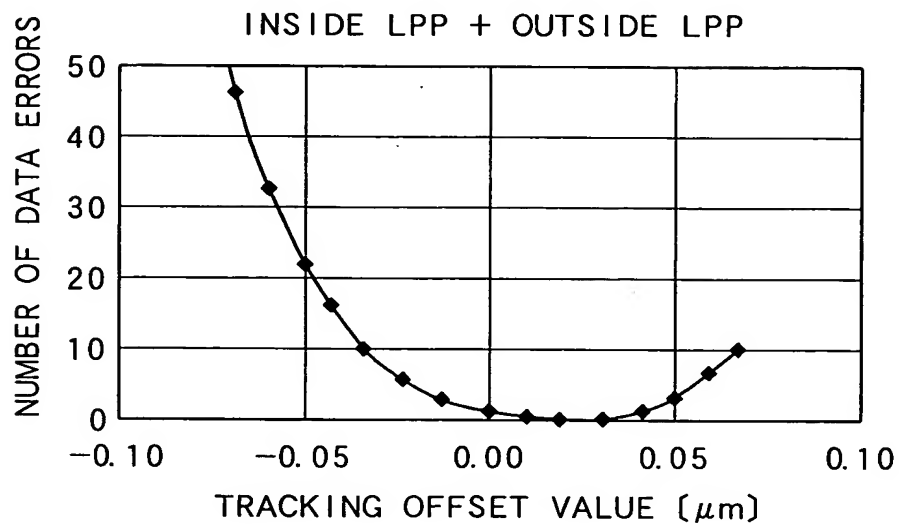


FIG. 24

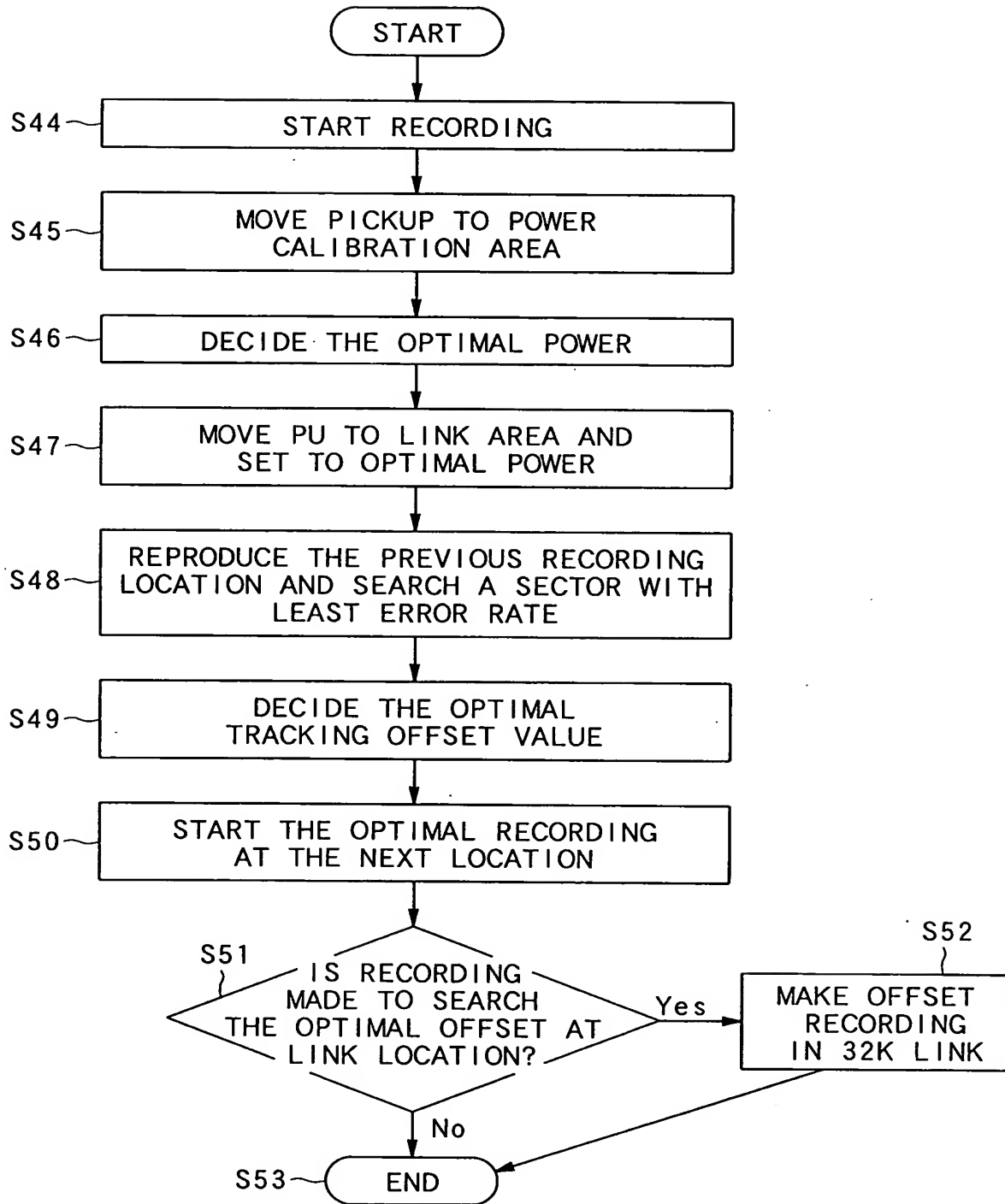


FIG. 25

